

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) An electropolishing apparatus comprising:
a ~~rotatable~~ polishing surface plate including a cathode ~~and turnably disposed~~;
a polishing pad disposed on said polishing surface plate, to be impregnated with an electropolishing liquid, and showing electric conduction from the face side to the back side thereof ~~in the state of being~~ when impregnated with said electropolishing liquid;
a substrate holding unit ~~for holding~~ which holds a work substrate with a work surface of said work substrate opposed to a polishing surface of said polishing pad, said substrate holding unit ~~turnably rotatably~~ disposed at a position opposed to said polishing pad, an outer circumferential portion of said work surface disposed outside of said polishing surface of said polishing pad;
an anode to be brought into contact with said work surface of said work substrate held by said substrate holding unit;
a chemical liquid supply unit ~~for supplying which can supply~~ a chemical liquid polish used for polishing onto said polishing pad as said electropolishing liquid onto a substantially central portion of said polishing pad so that said chemical liquid polish impregnates said polishing pad while moving in an outer circumferential direction of said ~~rotating~~ polishing pad during rotation thereof and towards said substrate holding unit; and
a power source ~~for supplying which can supply~~ electric power between across said cathode and said anode.

2. (Currently Amended) The electropolishing apparatus as set forth in claim 1, wherein said chemical liquid supply unit comprises:
a chemical liquid control unit ~~for which can~~ individually ~~controlling~~ control the quantities of said electropolishing liquid, as well as free abrasive grains~~[[.]]~~ and pure water supplied; and
at least one unit ~~for supplying~~ configured to supply said electropolishing liquid, said free abrasive grains, and pure water in the quantities controlled by said chemical liquid control unit.

3. (Currently Amended) The electropolishing apparatus as set forth in claim 1, further comprising:

a cup ~~[[for]]~~ capable of receiving ~~[[a]]~~ the chemical liquid polish discharged from the top of said polishing pad, said cup ~~provided around the side~~ surrounding a periphery of said polishing surface plate and ~~on the~~ extending under a bottom side of said polishing surface plate, and

a chemical liquid discharge unit provided in said cup at a position lower than said polishing surface plate and configured to extract said chemical liquid polish from said cup.

4. – 6. (Cancelled)